



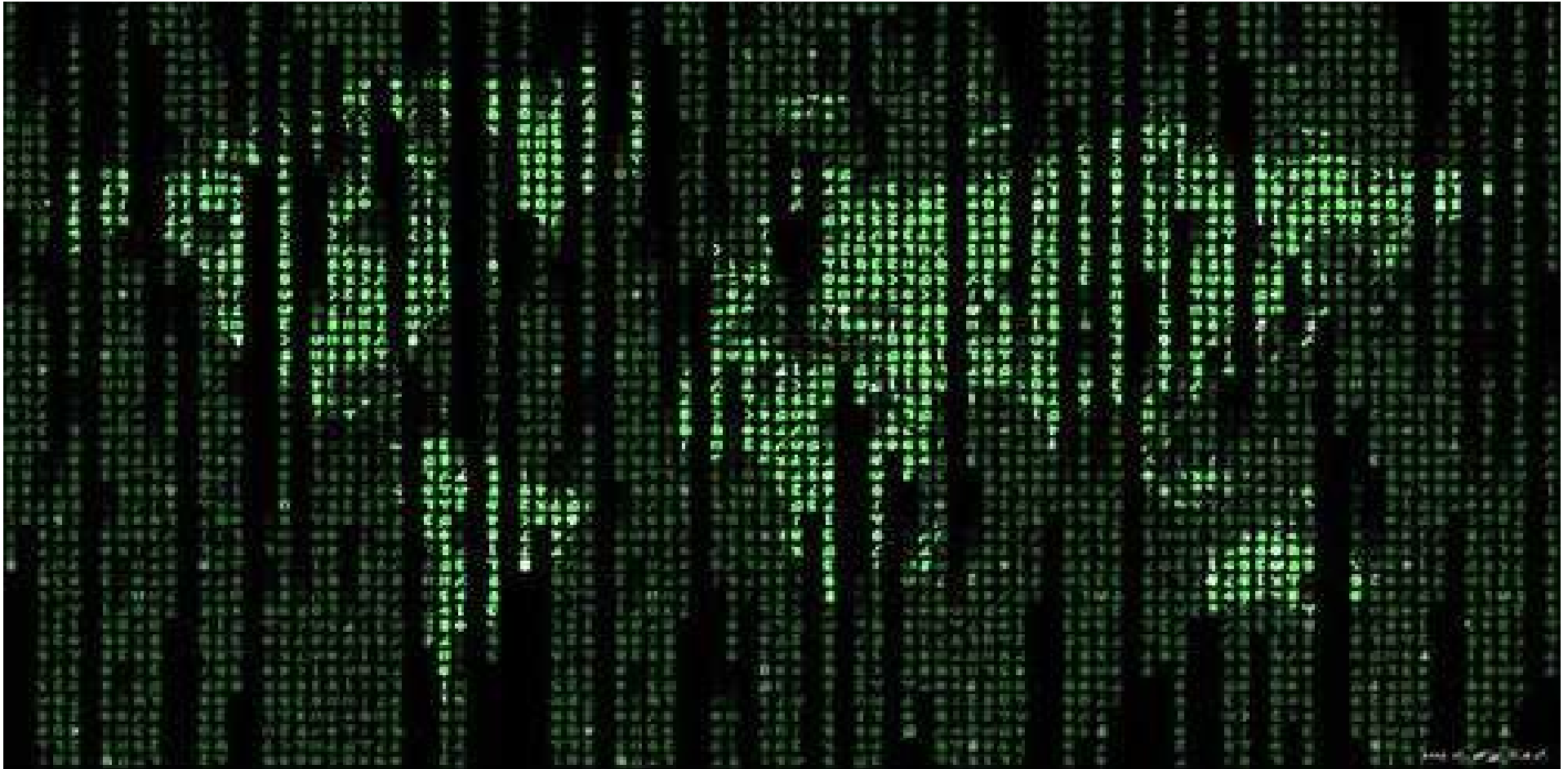
Project Presentation

Introduction, Overview and Implications

Your Name

Web 1-2-3

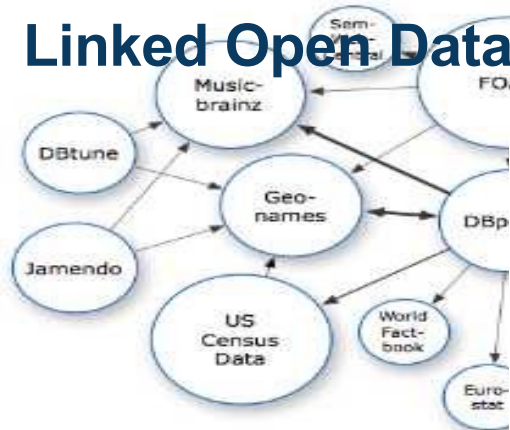
What does the world look like today?



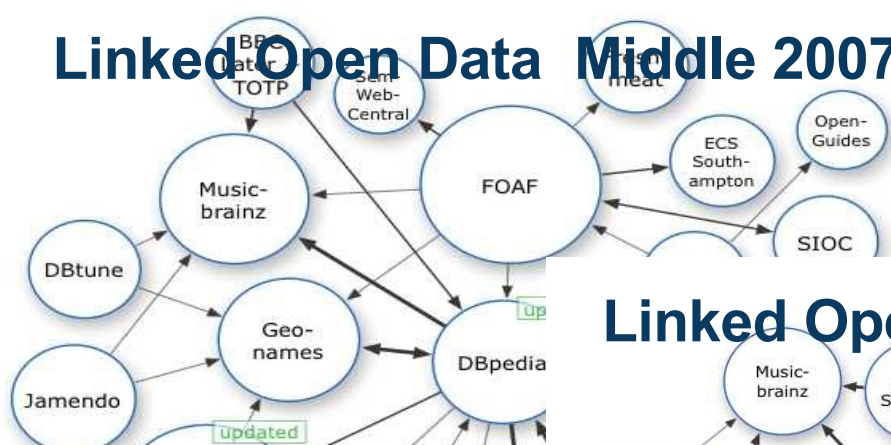
Are we able to imagine where it goes?



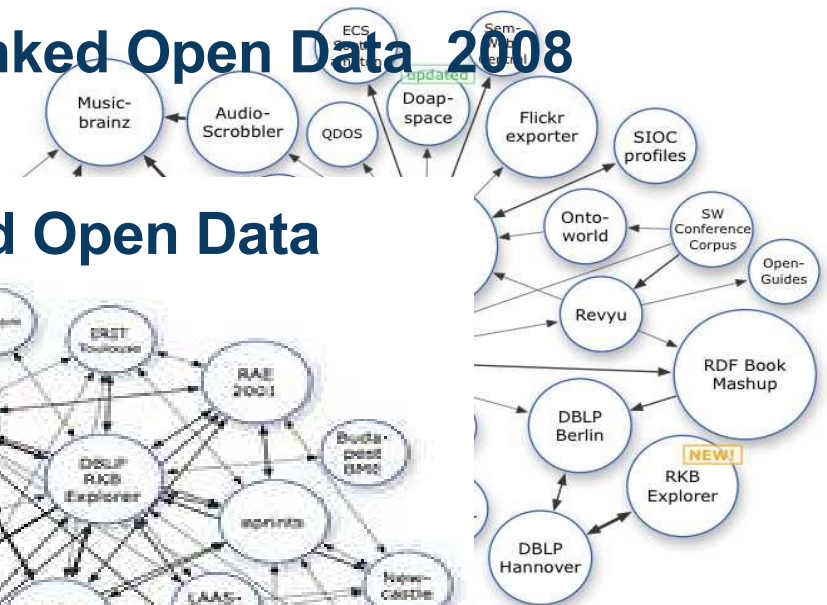
Linked Open Data early 2007



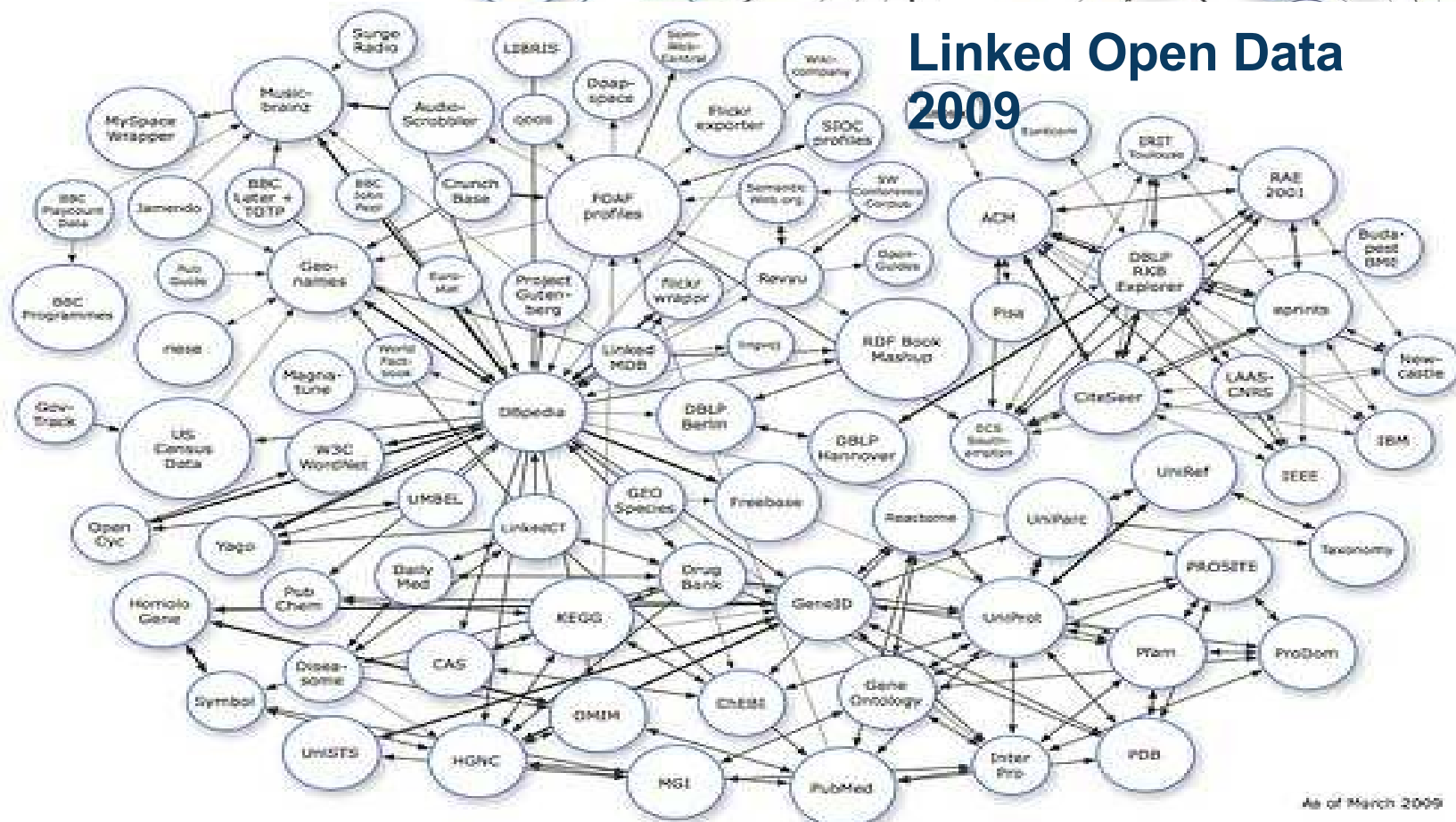
Linked Open Data Middle 2007



Linked Open Data 2008



Linked Open Data 2009



As of March 2009

So how can we utilize these
“community energies”?

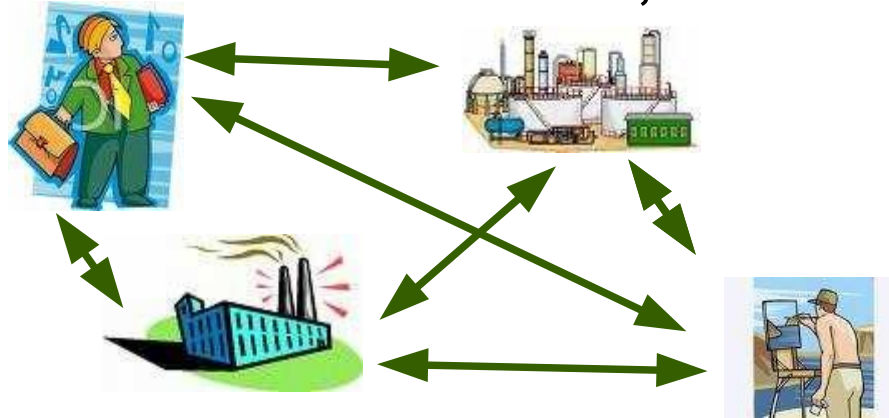


Supporting business models with (and for?) Semantic Technology

So what are the challenges? ...



- Genuine interaction & communication between content creators, owners and consumers.



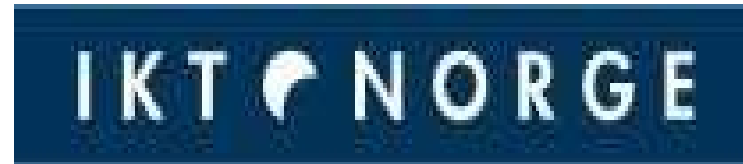
- Globally Identifiable Information on Objects
- Globally Identifiable Statements about Objects and other statements
- Understanding ST's implications,
- Transforming your business and people,
- Adapting your business model!

..and what are the SESAM4 Objectives?



- To **develop open standards and tools** that will lower the barriers of entry in the area of semantically enhanced portals and services and make it possible for small and medium sized companies and organizations to exploit semantic systems.
- To **develop methods, models and procedures for semi-automatic generation of ontologies** from unstructured text indexes for use as background variables for semantic annotations.
- To **improve, particularly in the area of scalability, current methods for text mining and indexing.**
- To **develop methods, models and procedures for integrating content management system** based on RDF with content management systems based on Topic Maps and for semantic integration and coordination of large multi lingual content management systems
- To **verify the functionality and scalability of these semi-automatically generated ontologies** to integrate multiple large scale content management systems

Consortium Partners...



...SESAM4 is an Open Project

- *Open Source*
 - It will deliver *Open Source* software
- *Best Practices*
 - Based upon experiences from the community and project-owned reference implementations
- *Community involvement*
 - Where possible, the projects' results will be available for and discussed with relevant communities.



... SESAM4 is an integrated project

SEMANTIC WEB



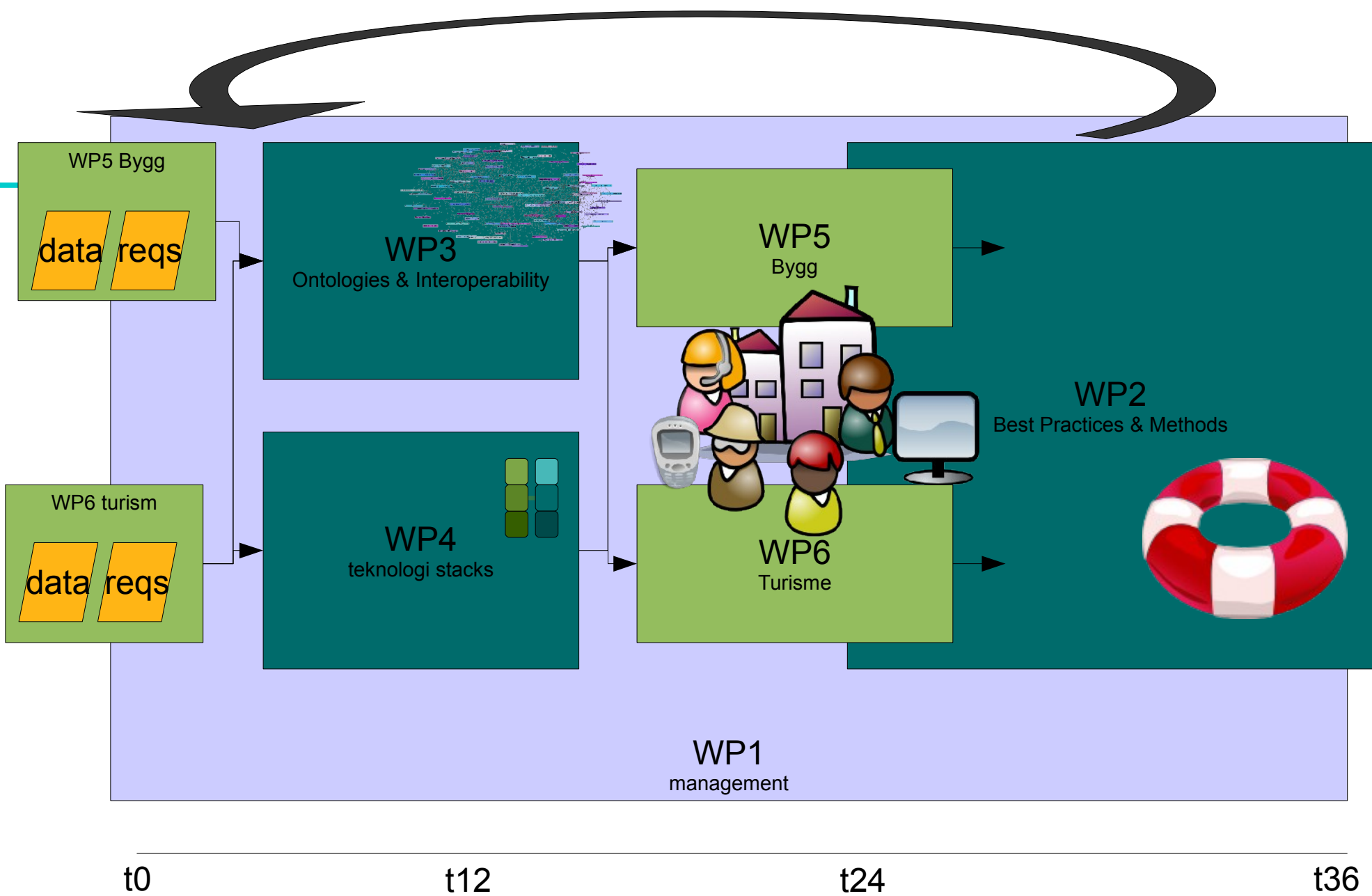
Topic Maps



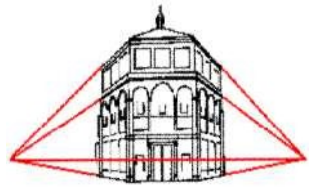
SESAM4's five pillars



- 1. Use Case: Construction**
- 2. Use Case: Tourism**
- 3. WP R&D: ontology and semantic lifting**
- 4. WP Technology: Semantic Web and ISO stacks**
- 5. WP Best Practices: steps into the “semantic” future**



Milestones



artistic advance



better breakthrough



cheerful chime

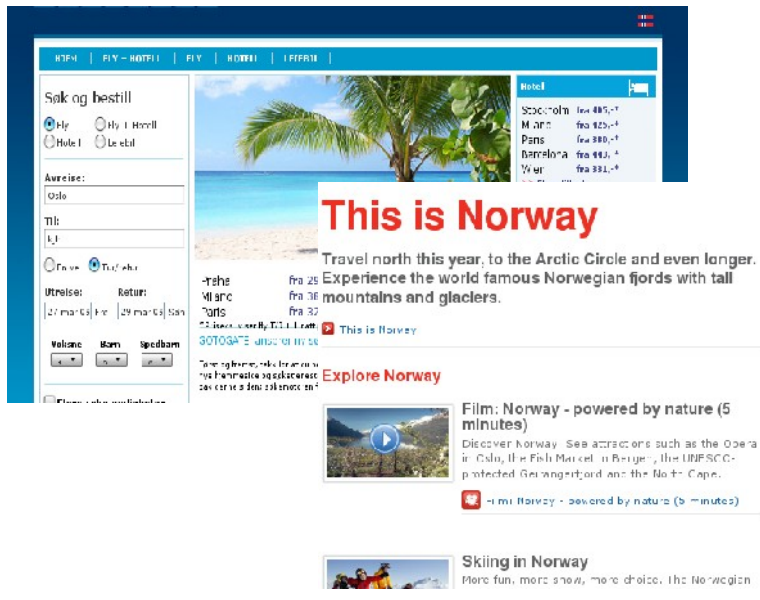
YEAR 1

YEAR 2

YEAR 3

Application domain: Tourism

- **Preparing and decision phases**
 - **Active, goal-directed information reach-out**
 - Search for packages, hotels, flights, cars, events.
 - Planning of holidays
 - Booking of events, hotels, travels etc.



Application domain: Tourism

Contribution by Norsk Regnesentral: Knut Holmqvist



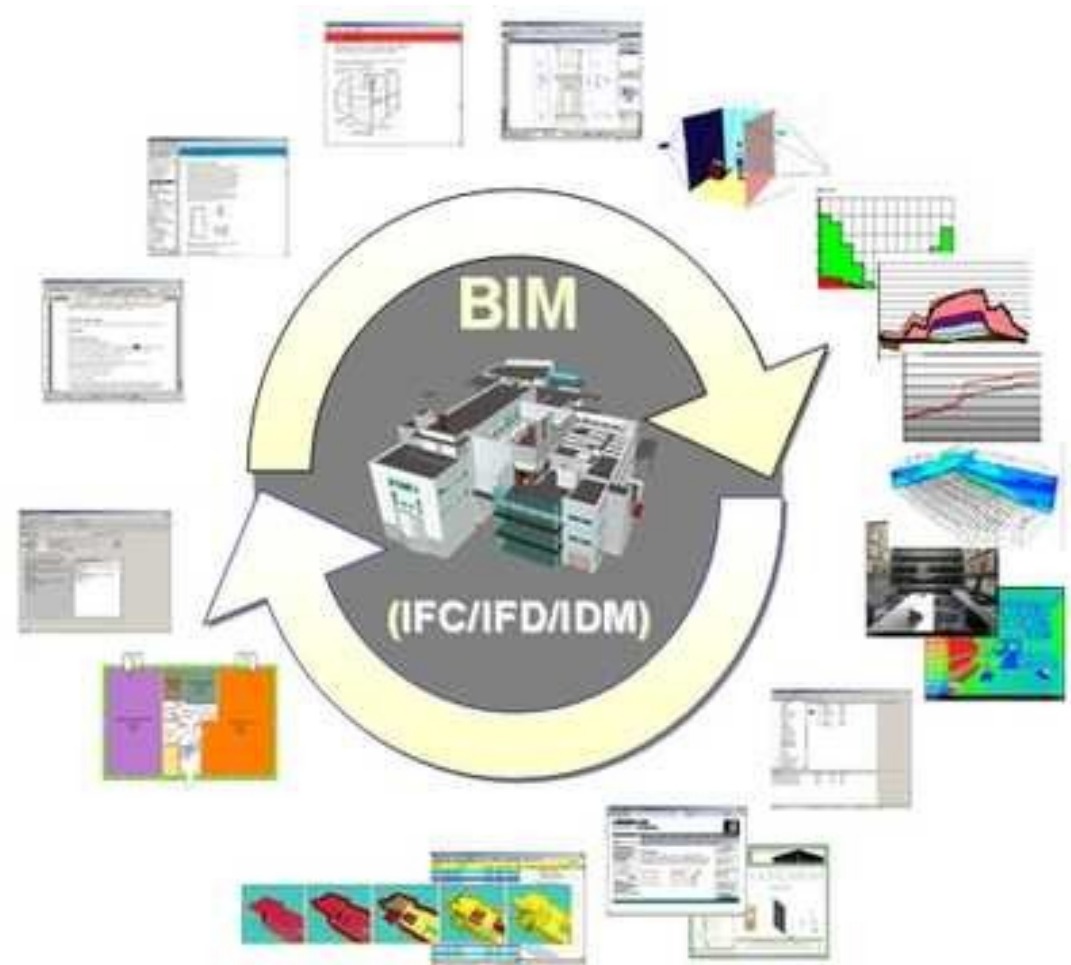
Application domain: Construction



- Scenario 1:
 - an architect or engineer is working on a project in **an early phase of the building project**. The building site and address is known as well as the main functions for the building. She's in the process of establishing the initial BIM with functional requirements for rooms and main structural elements. She's working in her expert application that is a **buildingSMART compatible CAD tool**, and she has **access to all of the SINTEF Building and Infrastructure Knowledge System (BKS)**.
- Scenario 2:
 - a **contractor has received a BIM for pricing**. He will choose products for the building based upon the specifications from the architect and engineer. He is also interested in other, derived, information about the products.
- Scenario 3:
 - the last user scenario we will be using **an already built construction**. The BIM now contains both function requirements and information about the actual products installed. In this scenario the user is the owner of the building **looking to replace or improve products or parts** of the building.

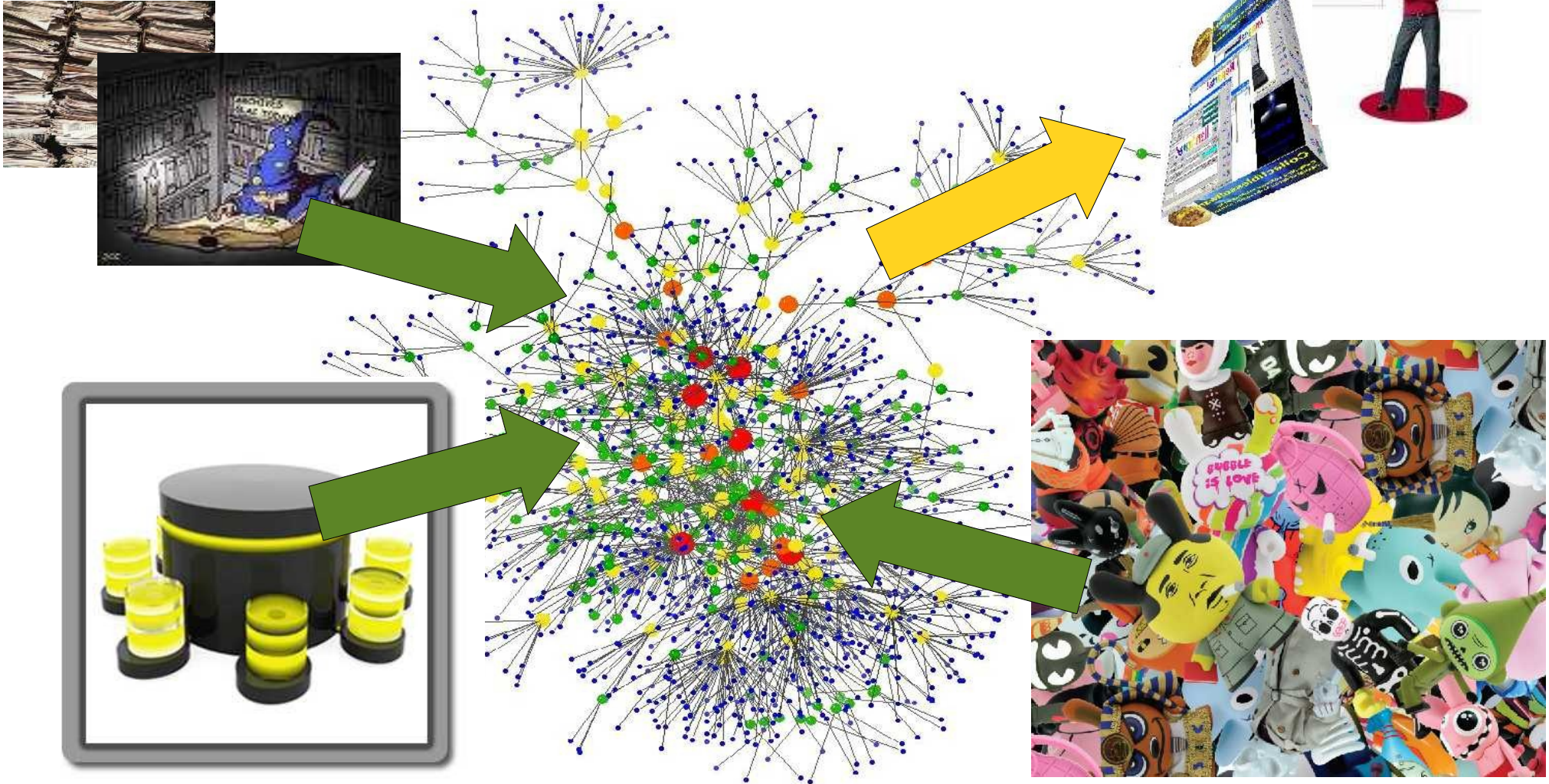
Application domain: Construction

- IFD
 - International Framework for Dictionaries Library
- IFC
 - Industry Foundation Class
- IDM
 - Information Delivery Manual / Document
- BIM
 - Building Information Model

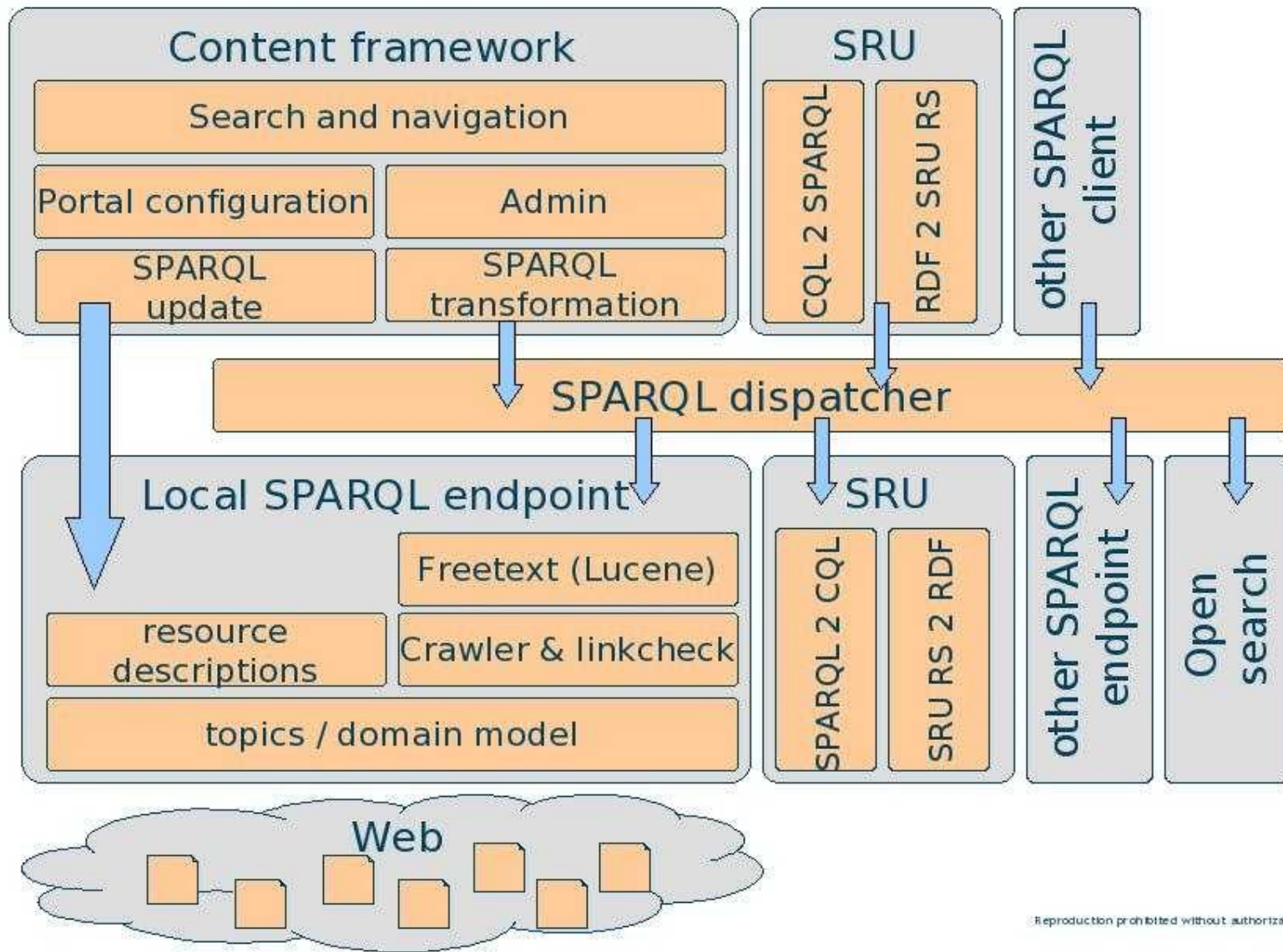


Contribution by SINTEF Byggforsk: Håvard Bell and Lars Bjørkhaug

Pillar: Ontology & Semantic Lifting



Sublima architecture



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Pillar Technology: Topic Maps

- Stack built on COMPASS
 - directed towards universal access, search & navigation
 - implemented in Java
 - generic framework (engine can be plugged in)
 - Wandora - wandora.org
 - TinyTiM - sourceforge
 - TM++ - sourceforge
 - connectors written with TMAPI
 - first version april '09



Pillar Best Practices

or “the process to introduce semantics”



Wrap up on SESAM4



- Sesam4 is:
 - focussed on Interoperability issues in digital environments
 - aimed at Semantic Technologies
 - an Open Project
 - there until 2010
- Sesam4 delivers:
 - Best Practices & Guidelines for you to “semantize your environment” (processes, data, integration)
 - Technology for you to use
 - Trends, experiences and ideas in reference implementations

Semantics?

It's just the web evolving...

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Publication (Web 1.0)
Participation & Interaction (Web 2.0)
Identification & Interoperability (Web 3.0)